February 2003

CURRICULUM VITAE

NAME: Christian S. Reiss

ORGANIZATION: National Oceanic & Atmospheric Administration
National Marine Fisheries Service
Southwest Fisheries Science Center
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PRESENT POSITION: Oceanographer (Research)

DISCIPLINE: Biological Oceanography

EDUCATION:

B. S., Natural Resource Management and Applied Ecology, Cook College, Rutgers University, 1989

M. S., Oceanography, Old Dominion University, 1992

Ph.D., Biological Oceanography, Old Dominion University, 1997

PROFESSIONAL WORK EXPERIENCE

2002-Present	Oceanographer (Research), Fisheries Resources Division National Marine Fisheries Service La Jolla CA
2000- 2002	Self-Supporting Research Scientist Center for Quantitative Fisheries Ecology Old Dominion University Norfolk, VA.
1997- 2000	Post-Doctoral Fellow, Fisheries Oceanography Departments of Oceanography and Biology Dalhousie University Halifax, NS, Canada
1996	Graduate Summer Intern New York City Department of Environmental Protection Marine Science Section New York, NY
1991-1996	Teaching and Research Assistant Department of Oceanography Old Dominion University Norfolk, VA

1989-1991	Librarian/Technician, the Hudson River Foundation for Science and Environmental Research, Inc. New York, NY
1989	Summer Research Internship, Horn Point Environmental Laboratory, Cambridge, MD.
1988	Summer Intern, New Jersey Department of Environmental Protection, Bureau of Shell-Fisheries, Bivalve, NJ

RESEARCH AREAS

I am interested in determining how physical oceanographic processes and hydrographic features interact with biological processes to determine the outcome of life history events that ultimately affect survival and recruitment to juvenile stages and habitats.

PROFESSIONAL AFFILIATIONS:

American Geophysical Union

ACADEMIC SUPERVISION:

Eric Robillard. 2001- present. Age-specific fecundity of bluefish, *Pomatomus saltatrix* along the east coast of the U.S. Dept. of Biology, Old Dominion University, Norfolk, VA. M.S. student. (Supervisor).

Erik Davenport. 2001-present. Influence of submarine canyons on the horizontal and vertical distributions of zooplankton at the shelf-slope interface. Morgan State University, Baltimore, MD. M.S. student (Co-Supervisor with L. Marshall).

Erin E. Arnold. 1998-1999. Increase in larval crabs in relation to the decrease in groundfish biomass on the Scotian Shelf, 1977-1998. Honors BSc. Biology, Dalhousie University, Halifax. (Co-Supervisor with C. T. Taggart).

David Goddard. 1997-1998. Capelin distributions on the Scotian Shelf. Honors BSc. Biology, Dalhousie University, Halifax. (Co-Supervisor with C. T. Taggart).

Jennifer Jeffrey. 1997-2000. Oceanographic variability and otolith growth of silver hake (*Merluccius bilinearis*) larvae from Western Bank. M.Sc. Dept. of Oceanography, Dalhousie University, Halifax, NS. (Informal advisor and invited participant of thesis committee).

TITLE OF DISSERTATION:

Influence of physical processes on the spatial distribution of ichthyoplankton across the Chesapeake Bay plume.

REFEREED PUBLICATIONS: February 2003

1. G. G. Panteleev, N. A. Maximenko, B. deYoung, C. S. Reiss, and T. Yamagata. (2002). Variational interpolation of circulation with nonlinear, advective smoothing. (*J. Atmos. Oceanic Tech*. 19:1442-1450.

2. Reiss, C. S., A. Anis, C. T. Taggart, J. F. Dower, and B. Ruddick. (2002). Relationships among vertically structured *in situ* measures of turbulence, larval fish, their feeding success, and copepods on Western Bank, Scotian Shelf. *Fish. Oceanogr.* 11(2):1-20.

3. Panteleev, G. G., deYoung, Luneva, M., Semenov, E. V. and Reiss, C. S. 2001. Modelling the circulation on the Scotian Shelf through sequential application of a variational algorithm and a non-linear diagnostic model. *Journal of Geophysical Research*, May 2001).

4. Reiss, C. S., G. G. Panteleev, J. Sheng, C. T. Taggart, B. deYoung. (2000) Observations on larval fish transport and retention on the Scotian Shelf in relation to geostrophic circulation. *Fish. Oceanog.* 9(3):195-213.

5. G. G. Panteleev, N. A. Maximenko, B. deYoung, C. S. Reiss, and T. Yamagata (2000). Anisotropic optimization of the current field with the variational method. *Oceanology.* 40(4):451-457.

6. Reiss, C. S., I. A. McLaren, and P. Avendaño. (1999). The utility of lipid volume estimates in determining recent trophic history in late-stage copepodids. *Can. J. Fish. Aquat. Sci.* 56(12):2444-2449.

7. Reiss, C. S. and J. R. McConaugha. (1999) Cross-frontal transport and distribution of ichthyoplankton in Virginia Shelf waters associated with Chesapeake Bay plume dynamics. *Cont. Shelf Res.* 19(2):151-170.

8. Reiss, C. S., Stephenson, R. L., Power, M. J., and Taggart, C. T. Oceanographic influences on the advection and retention of Scotian Shelf spawned Atlantic herring (*Clupea harengus*) larvae. (In revision: *Canadian Journal of Fisheries and Aquatic Sciences*, June 2002).

9. Reiss, C. S., McLaren I. A. and Avendaño, P. Horizontal and vertical distribution patterns, retention rates and population dynamics of zooplankton on Western Bank, Scotian Shelf. (Submitted to *Canadian Journal of Fisheries and Aquatic Sciences* Sept. 2002).

10. Panteleev. B. deYoung, C. S. Reiss and C. T. Taggart. Passive tracer reconstruction as a least squares problem with a semi-lagrangian constraint: an application to fish eggs and larvae (in revision *Journal of Marine Research* October 2002).

MANUSCRIPTS IN PREPARATION:

Hare, J.A., Thorrold, S.R., Walsh, H. Reiss, C. S., Valle-Levinson, A., and Jones, C.M. Bio physical mechanisms of larval fish ingress into Chesapeake Bay. (In. Prep.).

Reiss, C. S., McLaren, I. A. Avendaño, P., and Taggart, C. T. Spatio-temporal patterns of the feeding ecology of Silver hake larvae (*Merluccius bilinearis*) on the Scotian Shelf. (In. prep.).